BRUHAT BENGALURU MAHANAGARA PALIKE

PROJECT DIVISION YELAHANKA ZONE

NAME OF WORK : Package-10

1) Construction of anganawadi building at kogilu in ward no 05 byatarayanapura sub division. 2) Improvement of road and drain at ward no 05 to ward no 06 and 07 connecting roads in ward no 05 byatarayanapura sub division.3) Improvement of roads and drain at telecom layout cross roads in ward no 05 byatarayanapura sub division. 4) Improvement of roads and drain at shivaramakaranthanagara 1st stage cross roads in ward no 05 byatarayanapura sub division

DRAFT TENDER SCHEDULE

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2	Sqm	4730	6.36	Rupees Six And Paise Thirty Six Only
2	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5	Sqm	25055	3.18	Rupees Three And Paise Eighteen Only
3	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification	Cum	2084.33	186.92	Rupees One Hundred Eighty Six And Paise Ninety Two Only
4	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications	Cum	309.13	155.16	Rupees One Hundred Fifty Five And Paise Sixteen Only
5	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications	Cum	485.58	1768.08	Rupees One Thousand Seven Hundred Sixty Eight And Paise Eight Only
6	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications	Sqm	2761.88	27.56	Rupees Twenty Seven And Paise Fifty Six Only
7	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications	Sqm	34788.2	11.66	Rupees Eleven And Paise Sixty Six Only

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
8	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	110.85	6284.74	Rupees Six Thousand Two Hundred Eighty Four And Paise Seventy Four Only
9	Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications	Cum	1373.76	7083.98	Rupees Seven Thousand Eighty Three And Paise Ninety Eight Only
10	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications	Sqm	1560.25	542.72	Rupees Five Hundred Forty Two And Paise Seventy Two Only
11	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications	Cum	200.34	5348.76	Rupees Five Thousand Three Hundred Forty Eight And Paise Seventy Six Only
12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification	Sqm	3484.8	310.58	Rupees Three Hundred Ten And Paise Fifty Eight Only
13	Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per	Tonne	24.33	64243.42	Rupees Sixty Four Thousand Two Hundred Forty Three And Paise Forty Two Only
14	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge	Sqm	1242	2100	Rupees Two Thousand One Hundred Only
15	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.	Sqm	86.4	5111	Rupees Five Thousand One Hundred Eleven Only

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
16	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mmand down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and	Cum	469.26	6371.66	Rupees Six Thousand Three Hundred Seventy One And Paise Sixty Six Only
17	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete	nos	3067	331.78	Rupees Three Hundred Thirty One And Paise Seventy Eight Only
18	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications	Sqm	552	63.6	Rupees Sixty Three And Paise Sixty Only
19	. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications	Cum	137.84	1665.26	Rupees One Thousand Six Hundred Sixty Five And Paise Twenty Six Only
20	Earthwork excavation for foundtion of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications	cum	97.4915	204.12	Rupees Two Hundred Four And Paise Twelve Only
21	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth including cost of all materials, labour, HOM of machienry, curing complete as per specifications.	cum	16.28	5256.36	Rupees Five Thousand Two Hundred Fifty Six And Paise Thirty Six Only
22	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6 stone hammered dressed in courses not less than 20 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications.	cum	12.41	4521.96	Rupees Four Thousand Five Hundred Twenty One And Paise Ninety Six Only
23	Providing and constructing granite / trap / basalt size stone masonry in Basement cement mortar 1:6 stone Chistle dressed in courses not less than 15 cms high, bond stones at two m, apart in each course including cost of materials, labour, curing complete as per specifications. (P-26, It5.9)	cum	7.03	5405.4	Rupees Five Thousand Four Hundred Five And Paise Forty Only
24	Providing ruled pointing of coursed stone masonry with Cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, abour, HOM of machineries curing etc., complete as per specification and directions of the Engineer-in-charge	Sqm	10.96	105.84	Rupees One Hundred Five And Paise Eighty Four Only
25	Filling available excavated earth (excluding rock) in sides of foundation upto plinth in layers not exceeding 20 cms in depth compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification	cum	68.24	137.16	Rupees One Hundred Thirty Seven And Paise Sixteen Only

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
26	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 Kgs, with 20mm and down size graded granite metal coarse aggregtes @ 0.69cum and line aggregates @ 0.459 cum,machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per	cum	3.34	5876.28	Rupees Five Thousand Eight Hundred Seventy Six And Paise Twenty Eight Only
27	KSRB 4-2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates 0.459 chm, with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms, thick, vibrated for all works in foundation	Cum	33.05	6491.88	Rupees Six Thousand Four Hundred Ninety One And Paise Eighty Eight Only
28	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates 0.459 chm, with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms, thick, vibrated for all works in foundation plinth and ground	Cum	17.69	6545.88	Rupees Six Thousand Five Hundred Forty Five And Paise Eighty Eight Only
29	Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for foundation, footing, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2.. (P-15, It.4.28)	Sqm	98.03	249.48	Rupees Two Hundred Forty Nine And Paise Forty Eight Only
30	Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for vertical surface such as walls at any thickness including attached pilaster buttresses,plinth and sting course cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2.. (P-15, It.4.31)	Sqm	97.78	316.44	Rupees Three Hundred Sixteen And Paise Forty Four Only
31	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No KBS 4.6.2.. (P-15, It.4.30)	Sqm	140.97	414.72	Rupees Four Hundred Fourteen And Paise Seventy Two Only
32	KSRB 4.9.2:Providing T.M.T Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastages shall not be measured and paid) cost of materials, labour, HOM of machienry complete as per	Tonne	6.09	65455.56	Rupees Sixty Five Thousand Four Hundred Fifty Five And Paise Fifty Six Only
33	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per Sqmm with cement mortar 1:4 masonry (quoin, jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P-25, It.5.27)	Sqm	248.97	1011.96	Rupees One Thousand Eleven And Paise Ninety Six Only
34	Providing and fixing M.S. grill work for window and ventilators using M.S flats, or M.S. square rods, or combination of M.S. flats, or M.S. square approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials fixtures, labour and HOM of machinery complete as per specifications. Specification No. 7.12(P-32, It.7.9)	kg	378	84.24	Rupees Eighty Four And Paise Twenty Four Only
35	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm,	Sqm	18	4047.08	Rupees Four Thousand Forty Seven And Paise Eight Only

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
36	Providing Mathi/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought framed or assembled including making plaster groves (excluding cost of cement concrete and sisde clamps) but including cost of materials, labour HOM of machineries complete as per specifications. Specification No.KBS 9.33 (P-51, lt.9.12)	Cum	0.83	87255.36	Rupees Eighty Seven Thousand Two Hundred Fifty Five And Paise Thirty Six Only
37	Providing and fixing inposition fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panesl of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (P-51, lt.9.16)	Sqm	8.19	4239	Rupees Four Thousand Two Hundred Thirty Nine Only
38	"SOLID PVC DOOR FRAME Providing & fixing factory made PVC door frame of size 50x47 mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at comers & jointed 2 nos of 150mm long brackets of 15x15mm M.S. Square tube, the entire door frame to be reinforced with 19x19mm M.S. Square tube of 19 guage. The door frame to be fixed to the wall using M.S. screws of	Sqm	3.15	568.08	Rupees Five Hundred Sixty Eight And Paise Eight Only
39	"SOLID PANEL PRELAM PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam prelim Paneled door shutters made from M.S. Tube of 19 x 19 mm, 19 for styles and 15x15mm for top & bottom rails, covered with heat moulded prelaminated PVC 'C' channel of 5mm thick sheet & 30x50mm wide to form styles & 5mm thick & 75mm wide prelaminated PVC sheets for top rail, lock rail & bottom rail	Sqm	3.15	4368.6	Rupees Four Thousand Three Hundred Sixty Eight And Paise Sixty Only
40	Providing and fixing mortise lock heavey duty to doors	nos	4	646.92	Rupees Six Hundred Forty Six And Paise Ninety Two Only
41	Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	92.32	192.24	Rupees One Hundred Ninety Two And Paise Twenty Four Only
42	KSRB 15-3.8: Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	231.06	238.68	Rupees Two Hundred Thirty Eight And Paise Sixty Eight Only
43	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonary & Concrete including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	186.88	252.72	Rupees Two Hundred Fifty Two And Paise Seventy Two Only
44	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.	Sqm	323.38	27	Rupees Twenty Seven Only
45	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications.do with primer.	Sqm	323.38	97.2	Rupees Ninety Seven And Paise Twenty Only

Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
46	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - do - with primer	Sqm	186.88	90.72	Rupees Ninety And Paise Seventy Two Only
47	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification.	Sqm	97.24	1200.96	Rupees One Thousand Two Hundred And Paise Ninety Six Only
48	KSRB 11.5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design,	Sqm	2	5540.4	Rupees Five Thousand Five Hundred Forty And Paise Forty Only
49	Providing Ceramic tiles of approved make shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortar 1:3 mix flush pointing with white cement using colour pigment including cost of materials labour curing complete as per specification	Sqm	6	999	Rupees Nine Hundred Ninety Nine Only
50	KSRB 14-17.2: Providing skirting, dado, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm	26.25	1157.76	Rupees One Thousand One Hundred Fifty Seven And Paise Seventy Six Only
51	KSRB 11-11.3: Providing and fixing white vitreous china clay flat back wash basin size 550x400mm with a pair of 15mm C.P. brass pillar taps with C.I/M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	each	2	4032.72	Rupees Four Thousand Thirty Two And Paise Seventy Two Only
52	Providing and fixing on wall surface 4.0kg/ sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications.	Rmts	50	462.24	Rupees Four Hundred Sixty Two And Paise Twenty Four Only
53	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints	Rmts	40	226.8	Rupees Two Hundred Twenty Six And Paise Eighty Only
54	KSRB 13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification	each	4	173.88	Rupees One Hundred Seventy Three And Paise Eighty Eight Only
55	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I/ISO/SSI Specifications.	Ltrs	1000	6.48	Rupees Six And Paise Forty Eight Only

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Sl.No.	Description of Item	Unit	Qty.	Rate	
				In Figure	In Words
56	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). 12.5 cms x 7.5 xms.	each	2	307.8	Rupees Three Hundred Seven And Paise Eighty Only
57	Providing and fixing 600X450mm bevellead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.	each	2	1351.08	Rupees One Thousand Three Hundred Fifty One And Paise Eight Only
58	Constructing brick masonry inspection chamber 450x450mm and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455 x 610mm internal dimensions, total weight of cover with frame to be not less than 38kg. (weight of cover 23kg. and weight of frame 15kg) RCC top slab with cement concrete	nos	2	5771.52	Rupees Five Thousand Seven Hundred Seventy One And Paise Fifty Two Only
59	Providing & fixing M.S. Hand railing for Balcony with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mm x 20mm M.S. Square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All	Sqm	9.72	2857.68	Rupees Two Thousand Eight Hundred Fifty Seven And Paise Sixty Eight Only
60	Supplying & fixing .1 HP Atalanta/suguna/CRI /other equilent pump as per direction of Engineeer in charge of work	nos	1	12600	Rupees Twelve Thousand Six Hundred Only

Executive Engineer
Project Division
Yelahanka Zone
24/11/17

"DTS Approved"

28/11/17